## INTERNATIONAL SEARCH REPORT

Internation No PCT/DE2004/001439

			00 17 002 103				
A. CLASSI IPC 7	FICATION OF SUBJECT MATTER F28D7/06 F28F9/013 F28F9/22						
According to	o international Patent Classification (IPC) or to both national classific	ation and IPC					
	SEARCHED						
Minimum do IPC 7	cumentation searched (classification system followed by classification F28F F28D	on symbols) .					
	lion searched other than minimum documentation to the extent that s						
Electronic d	ata base consulted during the international search (name of data ba	se and, where practical, search terms	used)				
EPO-Internal, PAJ							
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with Indication, where appropriate, of the rel	evant passages	Relevant to claim No.				
Α	US 5 253 701 A (LEIDINGER BERNHAF DR) 19 October 1993 (1993-10-19) column 4, line 4 - line 13; figur		1-11				
A	US 5 915 465 A (FIX MICHAEL ET A 29 June 1999 (1999-06-29) figures	L)	1-11				
A	US 3 656 548 A (DONALDSON DESMONE 18 April 1972 (1972-04-18) figures 1,2	) M)	1,5				
	·						
Furti	ner documents are listed in the continuation of box C.	χ Patent family members are ils	ted in annex.				
° Special ca	tegories of cited documents :						
consid	ent defining the general state of the art which is not ered to be of particular relevance	"T" later document published after the or priority date and not in conflict cited to understand the principle of invention	with the application but				
filing date  "X" document of particular relevance; the claimed invention							
citation	int which may throw doubts on priority claim(s) or is cited to establish the publication date of another or or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or	involve an inventive step when the "Y" document of particular relevance; to cannot be considered to involve a	e document is taken alone the claimed invention In inventive step when the				
"P" docume	neans ont published prior to the international filing date but an the priority date claimed	document is combined with one of ments, such combination being of in the art.  "&" document member of the same pa	bylous to a person skilled .				
	actual completion of the international search	Date of mailing of the international					
	4 November 2004	01/12/2004					
Name and r	Name and malling address of the ISA  Authorized officer  European Patent Office, P.B. 5818 Patentlaan 2						
NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016		Mootz, F					

## INTERNATIONAL SEARCH REPORT

Information on patent family members

Intersaonal Application No
PCT/DE2004/001439

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 5253701	A	19-10-1993	DE EP JP JP RU	4130693 C1 0532849 A2 2651089 B2 5203376 A 2071017 C1	29-10-1992 24-03-1993 10-09-1997 10-08-1993 27-12-1996
US 5915465	A	29-06-1999	EP CA DE DK JP	0864830 A1 2220607 A1 59705073 D1 864830 T3 10300370 A	16-09-1998 14-09-1998 29-11-2001 04-02-2002 13-11-1998
US 3656548	Α	18-04-1972	CA DE FR GB ZA	923490 A1 2119873 A1 2086290 A5 1316514 A 7101986 A	27-03-1973 11-11-1971 31-12-1971 09-05-1973 27-09-1972